



**An ornamental element for a jewelry system and a jewelry system  
comprising such ornamental element**

The invention relates to an ornament for a jewellery system, which ornament  
5 comprises a base portion provided with at least one notch for receiving an  
elongate element and an ornamental element that can be mounted on the  
base portion in such a manner that it extends across the notch and thereby  
encloses the elongate element. Besides the invention relates to a jewellery  
system comprising an elongate element and further comprising at least one  
10 ornament as described above.

Such ornament and such jewellery system are known from German patent  
publication No. 1,087,388 that shows a jewellery bead that is provided with at  
least one through-going bore and a notch that extends from the outside of the  
15 bead into the through-going bore. The through-going bore thus constitutes  
the bottom of the notch and the bead can be mounted on a string by the  
string being conveyed down into the bottom of the notch until arranged in the  
through-going bore. The notch is wedge-shaped and a wedge element is  
provided that can be pressed down into the notch and by means of barbs be  
20 secured therein. The wedge element can be made of a material and a colour  
that are different from those of the bead, but can be mounted in one manner  
only that makes the bead spherical.

Besides, US-A-5,440,900 also teaches ornaments for mounting on a  
25 jewellery chain, which ornaments are configured for being tightly squeezed  
around the chain. Each of these ornaments consist of a dish-shaped portion  
with an open back and a closed front, wherein a jewellery element can be  
mounted, eg in the shape of a gem. Upon mounting on a jewellery chain, the  
chain is conveyed through notches or openings in the lateral walls of the  
30 ornament and is clasped in place by means of a clasping element. Thus, the  
ornaments are secured in a releasable manner and their positioning relative  
to each other on the chain can be varied. However, there is no possibility of  
varying the ornamental elements of the individual ornament.

Finally, FR-A1-2,747,277 discloses a jewellery system, wherein the ornaments comprise a base portion that is, by means of gluing or mechanical deformation, attached on several chains. By using magnets in the base portions and magnetic materials in the associated ornamental elements, it is possible to secure the ornamental elements in a releasable manner on the base portions. Thus, this jewellery system enables exchange of the individual ornamental elements, but it does not provide the option of changing the locations of the base portions on the chains.

In order to be able to further vary jewellery of these types, there is a need for ornaments for mounting on a string, a chain or any other elongate element, said ornaments providing a higher degree of flexibility with regard to the options of variations compared to the prior art mountable beads or ornaments.

It is thus an object of the invention to provide an ornament and a jewellery system that provide these further options for variations.

This is obtained by configuring the ornament described above such that the base portion and the ornament is configured such that the ornament can, in a releasable manner, be mounted on the base portion with a randomly selected orientation relative to the notch.

Hereby it is obtained that, in addition to being mountable on an elongate element, such as a string, a chain, a bar or the like, the ornament also comprises an ornamental element that can be configured to be irregular and that can be oriented as desired in the base portion of the ornament.

The interconnection between the base portion and the ornamental element can be configured in various ways, but according to a preferred embodiment the base portion is provided with a simple circular recess, in which the ornamental element can be mounted.

In order to ensure adequate attachment of the ornamental element in the base portion, the circular recess in the base portion can be undercut, while simultaneously the ornamental element is provided with at least one holder flap having an outwardly protruding collar that is able to engage with the undercut recess. By this configuration of the base portion and the ornamental element it is possible to establish a snap-coupling between the two portions. Such coupling means that the ornamental element is readily mounted as well as dismounted.

According to a preferred embodiment the base portion is configured as a circular ring, wherein the at least one notch is located diagonally on the one side of the base portion, and wherein the circular recess constitutes a through-going opening through the base portion. By this embodiment the base portion is generally configured as a rotationally symmetrical element, apart from the notch, and the recess being configured as a through-going opening enables mounting of ornamental elements on both sides of the base portion.

Preferably the notch in the base portion extends into a central plane in the circular opening such that a mounted, elongate element extends substantially through this plane whereby a well-balanced mounting is obtained.

In order to provide durable, but yet flexible elements the base portion as well as the ornamental element is preferably made of plastics.

The jewellery system according to the invention comprises an elongate element and at least one ornament configured as featured above. By the jewellery system it is thus possible to construct several different pieces of jewellery provided with ornamental elements that are mounted on the elongate element.

Preferably, the at least one groove provided in the base portion has such width that the elongate element can be secured in the notch by squeezing. Hereby simple attachment of the ornament on the elongate element is

obtained and a further attachment can be obtained by mounting of the ornamental element on that side of the base portion that is provided with the notch, the elongate element hereby being confined at the notch bottom by the ornamental element.

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The elongate element can be configured as an inflexible rod that is optionally shaped to form a necklace or a bracelet. However, in the preferred embodiment the elongate element is configured to be flexible and is provided with coupling means at its ends. This elongate, flexible element can thus be used for very flexible applications and for the construction of various structures.

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According to one embodiment at least the one coupling means at the end of the elongate, flexible element is configured as a base portion that corresponds to the base portion of the ornaments. Hereby further options of variations are obtained, since – on the one hand – it is possible to mount ornamental elements in the base portion, and – on the other hand – it is possible for the base portion via the notch to be caused to engage with another part of the elongate, flexible element.

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According to an alternative embodiment at least the one coupling means at the end of the elongate, flexible element is configured as a spherical element having a diameter that exceeds the overall thickness of the elongate, flexible element. Such spherical element at the end of the elongate flexible element serves, on the one hand, as a stop for how far towards the end of the elongate, flexible element an ornament can be mounted and, on the other, as an elegant finishing of the elongate, flexible element if that end remains free after mounting of various ornaments.

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Preferably the elongate, flexible element is configured as a metal chain that provides a secure basis for engagement with a notch provided in the base portion of the ornament.

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The invention will now be described in further detail with reference to the drawing, wherein

Figure 1 shows an ornament according to a first embodiment;

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Figure 2 shows the ornament separated in a base portion and an ornamental element;

Figure 3 shows a chain with ornaments mounted thereon;

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Figure 4 shows a chain extension; and

Figure 5 shows an alternative use of an ornament according to the invention as a part of an earring.

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Figure 1 shows an ornament 1 for a jewellery system, which ornament 1 comprises a base portion 2 that is provided with at least one notch 3 for mounting on an elongate element, such as a chain, a string, a rod, strand of hair or the like. The ornament also comprises an ornamental element 4 that is releasably mounted on the base portion 2. In the embodiment shown the ornamental element 4 is configured as a butterfly, but the ornamental element may have other shapes as will be apparent from the following.

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In Figure 2 the ornament 1 is shown separated in its two parts: the base portion 2 and the ornamental element 4 that can be assembled and separated by means of a snap-coupling as will be described below.

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In the embodiment shown the base portion 2 is configured as a circular ring with a through-going opening. Its upper and lower sides perpendicular to the through-going opening are plane, whereas its outer surface is configured curved. Diagonally on the upper side a notch 3 is provided that is configured for being able to receive an elongate element, such as a chain, a string, a rod, strands of hair or the like. The bottom of the notch 3 is located to be substantially level with the central plane of the base portion 2, such that an

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elongate element arranged in the notch is caused to be situated substantially in this central plane of the base portion 2.

5 The through-going opening is configured with undercut edges, there being provided at the upper and lower sides of the base portion 2 inwardly oriented collars or beads 5 that constitutes a part of the snap-coupling between the base portion 2 and the ornamental element 4.

10 On the bottom face the ornamental element 4 is provided with a disc 6 that in turn is provided with four downwardly oriented holder flaps 7 that each constitutes a circle with a diameter that corresponds to the diameter of the through-going opening in the base portion 2.

15 Each holding flap 7 is provided with an outwardly oriented collar or bead 8 that is configured for engaging with the collar or bead 5 of the base portion 2 provided in the through-going opening when the ornamental element 4 is mounted in the base portion 2. Owing to the configuration of the connecting means the orientation of the ornamental element relative to the notch 3 in the base portion 2 can be selected freely.

20 The ornament 1 can be mounted on an elongate element by it being located in the notch 3 on the base portion 2. If the elongate element fits tightly into the notch 3, ie it has a width that slightly exceeds the width of the notch 3, it may be secured exclusively by means of the friction between the sides of the groove 3 and the elongate element. Preferably the notch 3 has such depth  
25 that the ornamental element 2 can still be mounted on the base portion 2 when it is mounted on an elongate element. If the elongate element does not fit tightly into the notch 3, however, it may still be used, the ornament 1 thus becoming, in that case, merely loosely mounted on the chain or the string; ie  
30 the mounted ornament can be displaced freely on the elongate element.

As mentioned above, the elongate element may comprise a chain or a string, whereby one or more ornaments 1 may be constituents of a jewellery system with necklaces, bracelets and the like. However, the elongate element may

also be shaped as rigid rods or rings on which one or more ornaments 1 can be mounted or it may consist of the user's hair, viz a number of strands of hair being located in the notch 3 of the base portion 2, following which an ornamental element 4 is mounted and squeezes the hair in place within the notch 3.

Now Figure 3 shows an elongate element in the form of a chain 9 and ornaments 1, 11, 21 that are mounted on the chain 9. The chain 9 is made of metal rings that are connected axially to each other with only a small axial clearance between each metal ring. Such chain 9 appears like a compact, elongate, flexible element that is extremely suitable for use in combination with the ornament shown in Figures 1 and 2, since it is very stable dimensionally in the transversal direction and therefore it may in a suitable manner be pressed down into the notch 3 of a base portion 2 and be secured therein by a clasp effect.

At the one end the chain 9 is provided with a coupling means that is configured as a base portion 32 that is configured essentially like the base portion 2 shown in Figures 1 and 2. On the side, the base portion 32 is provided with an eye 33 in which the chain 9 is secured via a second eye 34. The base portion 32 is provided with a notch 35 as well as an inwardly extending collar or bead 36 in the through-going opening. Thus the base portion 32 can receive both a second elongate element in the notch 35 and be fitted with an ornamental element 4 in the same manner as the base portion 2 shown in Figures 1 and 2. Of course, the chain 9 can also be closed to form a closed ring if the opposite end of the chain 9 is mounted in the notch 35.

At the second end the chain 9 is provided with a spherical element 40, whose diameter slightly exceeds the diameter of the chain 9. Thus, this spherical element can act both as an end stop for an ornament 1 and as an elegant finishing of the chain 9, if it is used with a loosely suspended end.



The ornament 1 that is shown in details in Figure 1 and 2 are mounted and secured on the chain 9 by the chain 9 being pressed into the notch 3, following which the ornamental element 4 is mounted by means of the holder flaps 7, whose outwardly extending collar 8 cooperates with the inwardly oriented beads 5 in the through-going opening of the base portion 2. Owing to the configuration of the through-going opening of the base portion 2 and the holder flaps 7 of the ornamental element 4, it is possible – as mentioned above – to orient the ornamental element 4 in any randomly selected manner relative to the chain 9.

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In principle the ornamental element 11 corresponds to the ornament 1, as it comprises a base portion 2 and an ornament 14. The base portion 2 is mounted on the chain 9 by the chain 9 being pressed down into the notch 3 and secured therein by clasp effect. In this case the ornamental element 14 is dome-shaped and mounted on that side of the base portion 2 that is opposite the notch 3.

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In principle the ornament 21 also corresponds to the ornament 1 shown in Figures 1 and 2, it comprising, however, a base portion 22 that is provided with two notches 23a and 23b provided on each their side of the base portion 22. The two notches 23a, 23b extend diagonally across the base portion 22 and are located perpendicular to each other. Thus, the base portion 22 can, according to choice, be mounted on an elongate element from the one side or the other side, or optionally from both sides at the same time to form a cross between the two elongate elements.

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In the mounting shown of the ornament 21, the chain 9 is mounted in the notch 23a, and to each side of the base portion 22 a dome-shaped ornamental element 24a and a pyramidal ornamental element 24b, respectively, are mounted. The dome-shaped ornamental element 24a as well as the pyramidal ornamental element 24b are preferably made of transparent, stained glass or plastics.

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Figures 4 and 5 show other elements that may be constituents of the jewellery system according to the invention.

5 Figure 4 shows a chain extension 41 that is, in principle, constructed in the same manner as the chain 9 shown in Figure 3, viz. comprising a base portion 42, a chain 49 and a spherical element 50. The chain extension 41 can be used to extend the chain 9 shown in Figure 3 or more chain extensions 41 can be mounted in succession to form a longer chain. The chain extension 41 can also be used as a pendant or charm for a necklace or  
10 a bracelet, the base portion 42 being mounted on a chain like the chain 9 shown in Figure 3, whereas the chain 49 and the spherical element 50 are merely loosely suspended. Other applications for the chain extension 41 are also possible.

15 Figure 5 shows how an ornament 1 can be used in connection with an earring 60. The earring 60 comprises a pin 61 for mounting through a piercing in an ear and a lock 62 that can be clasped on the pin 61. The foremost end of the pin 61 is provided with a circular disc 66 that is provided with forwardly oriented holder flaps 67 that correspond to the holder flaps 7  
20 on the ornamental element 4 shown in Figure 2. A base portion 63 that corresponds to the base portion 2 shown in Figures 1 and 2 can thus be mounted on the earring and an ornamental element 64 can be mounted on the opposite side of the base portion 63.

25 The invention has been described with reference to preferred embodiments of ornaments and of the jewellery system. All constituent parts, however, can be configured in other ways without thereby departing from the inventive idea.

30 For instance, the base parts need not be configured as rings; they may have any other configuration as long as the coupling means between the base portions and the ornamental elements ensure that the ornamental elements can be mounted releasably with any randomly selected orientation relative to

the notch with which the base portion is mounted on the elongate element, such as a chain, a string, a rod, strands of hair or the like.

- 5 The length of a chain or string that is a constituent of the jewellery system can also be varied depending on the field of application for the individual chain or string. Finally it is of course possible to configure the ornamental elements in a wide variety of ways other than those shown in Figures 1-5.

Claims

1. An ornament (1; 11; 21) for a jewellery system, which ornament (1; 11; 21) comprises a base portion (2; 22; 63) that is provided with at least one notch (3; 23a, 23b) for receiving an elongate element, and an ornamental element (4; 14; 24a, 24b; 64) that can be mounted on the base portion in such a manner that it extends across the notch and thus encloses the elongate element; **characterised in** that the base portion (2; 22; 63) and the ornamental element (4; 14; 24a, 24b; 64) are configured such that the ornamental element (4; 14; 24a, 24b; 64) can, in a releasable manner, be mounted on the base portion (2; 22; 63) with any randomly selected orientation relative to the notch (3; 23a, 23b).
2. An ornament according to claim 1, **characterised in** that the base portion (2; 22; 63) is provided with a circular recess in which the ornamental element (4; 14; 24a, 24b; 64) can be mounted.
3. An ornament according to claim 2, **characterised in** that the circular recess in the base portion (2; 22; 63) is undercut, there being provided at least one inwardly extending bead (5) at the edge of the recess; and that the ornamental element (4; 14; 24a, 24b; 64) is provided with at least one holder flap (7) with an outwardly extending collar (8) that is able to engage in the undercut recess.
4. An ornament according to claim 3, **characterised in** that the base portion (2; 22; 63) is configured as a circular ring, the at least one notch (3; 23a, 23b) being located diagonally on the one side of the base portion (2; 22; 63), and the circular recess forming a through-going opening through the base portion (2; 22; 63).
5. An ornament according to any one of claims 1-4, **characterised in** that the notch (3; 23a, 23b) in the base portion (2; 22; 63) extends down to a central plane in the circular ring.

6. An ornament according to any one of claims 1-5, **characterised in** that the base portion (2; 22; 63) as well as the ornamental element (4; 14; 24a, 24b; 64) is made of plastics.

5     7. A jewellery system comprising an elongate element, **characterised in** further comprising at least one ornament (1; 11; 21) that is configured in accordance with any one of claims 1-6.

10     8. A jewellery system according to claim 7, **characterised in** that the at least one notch (3; 23a, 23b) provided in the base portion (2; 22; 63) has such width that the elongate element can be secured in the notch (3; 23a, 23b) by a clasping effect.

15     9. A jewellery system according to claim 7 or 8, **characterised in** that the elongate element is flexible and is provided with coupling means at the ends.

20     10. A jewellery system according to claim 9, **characterised in** that at least the one coupling means at the ends of the elongate, flexible element is configured as a base portion (32; 42) that corresponds to the base portion (2; 22; 63) in the ornaments (1; 11; 21).

25     11. A jewellery system according to claim 9, **characterised in** that at least the one coupling means at the end of the elongate, flexible element has the shape of a spherical element (40; 50) with a diameter that exceeds the overall thickness of the elongate, flexible element.

12. A jewellery system according to any one of claims 9-11, **characterised in** that the elongate, flexible element is configured as a chain (9; 49).

30     13. A jewellery system according to claim 12, **characterised in** that the chain (9; 49) is made of metal.

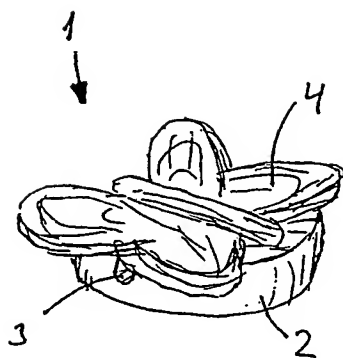


Fig. 1

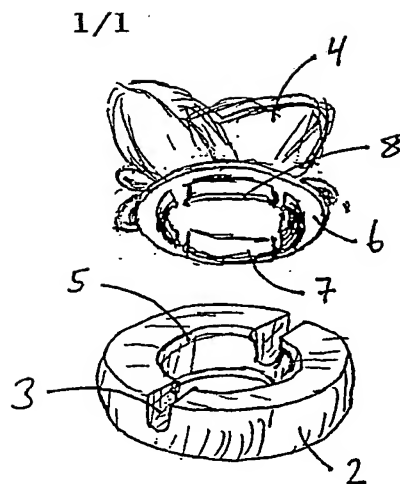


Fig. 2

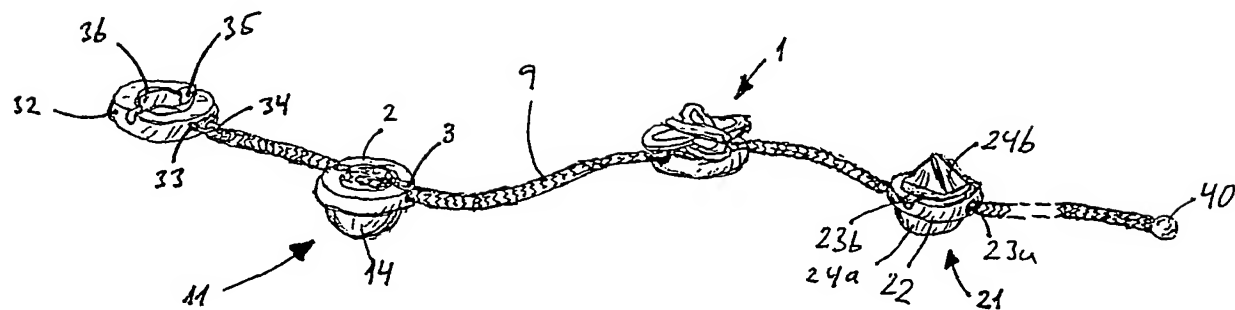


Fig. 3

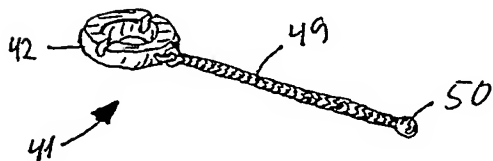


Fig. 4

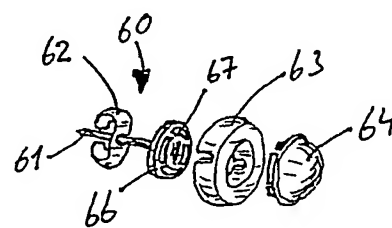


Fig. 5

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/DK 01/00486

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A44C 11/00, A44C 5/00, A44C 13/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A44C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2747277 A1 (JAMMET JEAN FIRMIN), 17 October 1997 (17.10.97), page 5, line 6 - line 20, abstract, figures	1-9
Y	--	10-13
X	US 5440900 A (H.H. WHITE), 15 August 1995 (15.08.95), column 1, line 49 - line 63, abstract, figures	1-2,5-7,9
Y	--	10-13
A	DE 1087388 B (F. PROKOPIUS), 18 August 1960 (18.08.60), the whole document	1-13
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☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/DK 01/00486

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GB 2069817 A (ALAN TYE, ALAN TYE DESIGN ET AL), 3 Sept 1981 (03.09.81), page 1, line 5 - line 48, figures	10-11
A	---	1-9,12-13
A	US 5606874 A (B. ARCHETTI ET AL), 4 March 1997 (04.03.97), abstract, figures -----	1-13

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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Patent document cited in search report			Publication date	Patent family member(s)	Publication date
FR	2747277	A1	17/10/97	NONE	
US	5440900	A	15/08/95	US 5491986 A	20/02/96
DE	1087388	B	18/08/60	NONE	
GB	2069817	A	03/09/81	NONE	
US	5606874	A	04/03/97	NONE	

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